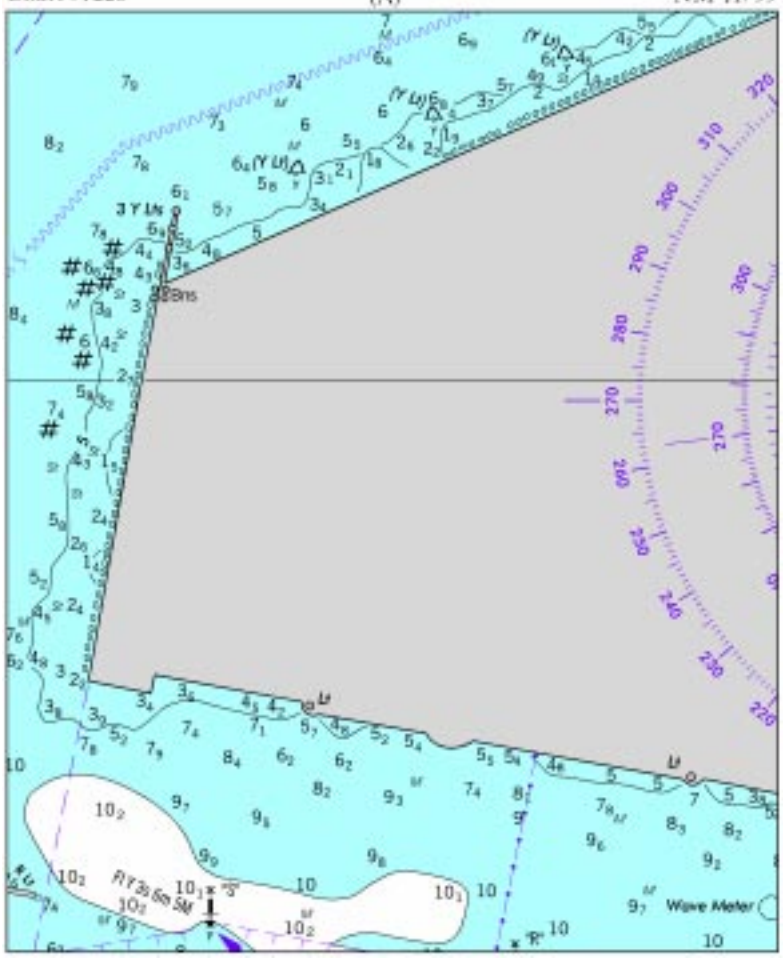
Chart 97228 (A) NM 41/99



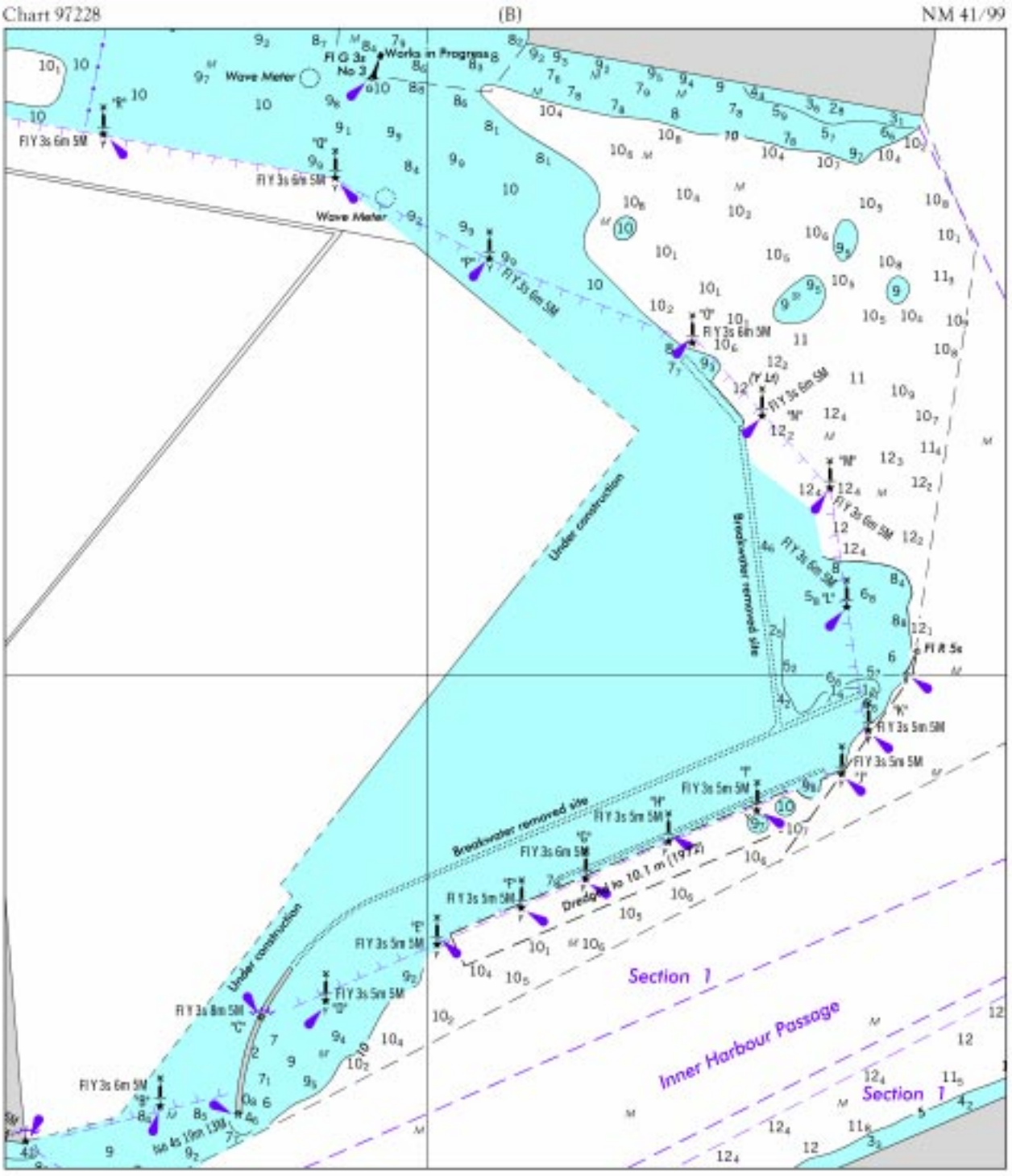


Chart 97228
(B)
NM 41/99
Works in Progress
Wave Meter
Wave Meter
Fl G 3s
No 3
Fl Y 3s 6m 5M
Fl Y 3s 6m 5M
Fl Y 3s 6m 5M
Fl Y 3s 6m 5M
Fl Y 3s 6m 5M
Fl Y 3s 6m 5M
Fl Y 3s 5m 5M
Fl Y 3s 5m 5M
Fl Y 3s 5m 5M
Fl Y 3s 5m 5M
Fl Y 3s 5m 5M
Fl Y 3s 5m 5M
Fl Y 3s 8m 5M
Fl Y 3s 6m 5M
Fl R 5s
Under construction
Under construction
Breakwater removed site
Breakwater removed site
Dredged to 10.1 m (197z)
Section 1
Inner Harbour Passage
Section 1

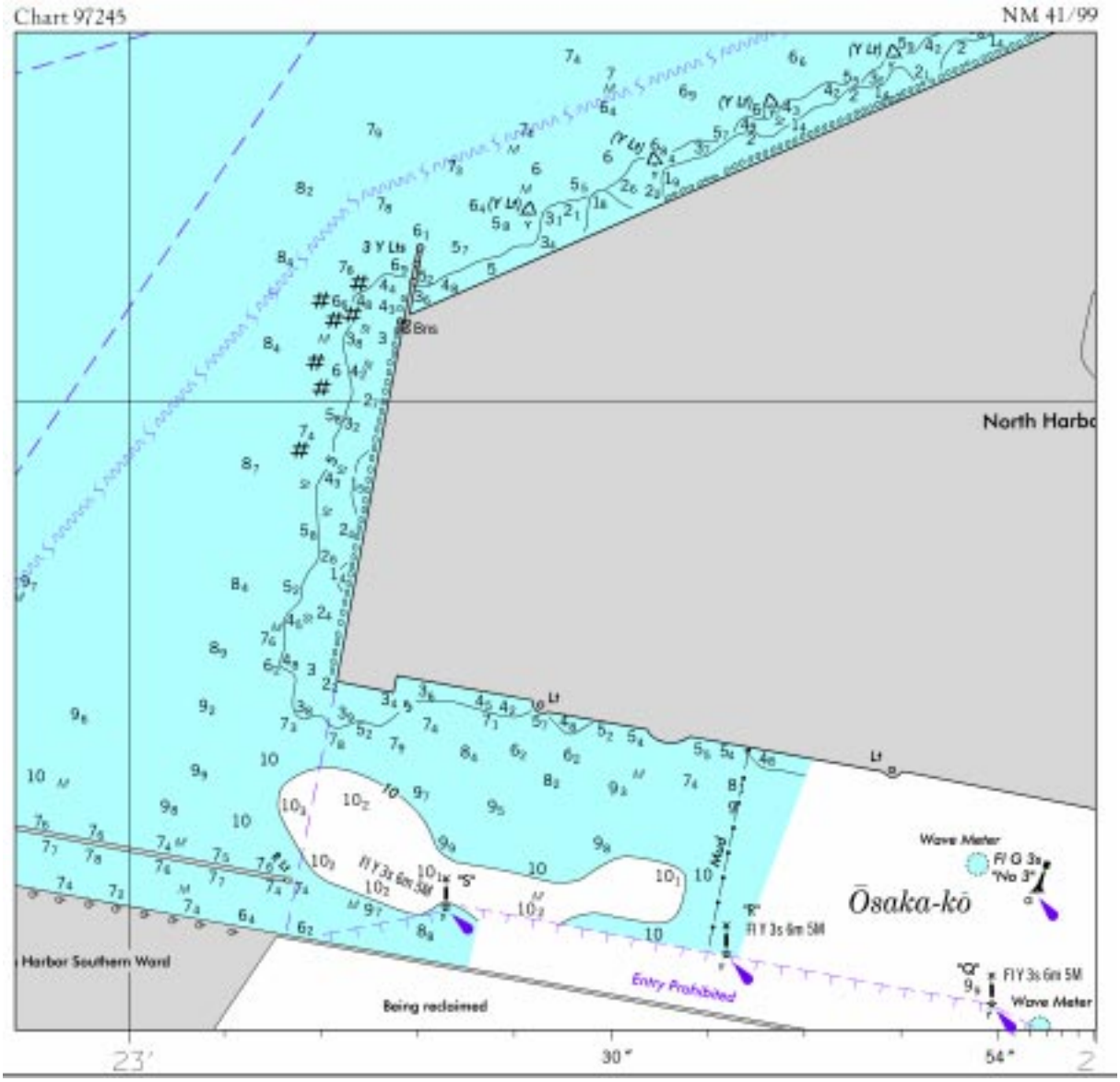


Chart 97245
NM 41/99
North Harbo
Ōsaka-kō
Wave Meter
Fl G 3s
"No 3"
Fl Y 3s 6m 5M
"S"
"P"
"Q"
Entry Prohibited
Being reclaimed
Harbor Southern Ward
Wave Meter
23'
30"
54"

CHART 11309 NM 41/99

CORPUS CHRISTI CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 1999

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ARANSAS PASS OUTER BAR	44.0	45.0	44.0	42.0	2-99	700-600	2.42	47
JETTY CHANNEL TO CLINE POINT	45.0	44.0	46.0	43.0	2-99	600	1.28	47-45
INNER BASIN AT HARBOR ISLAND	45.0	45.0	40.0	38.0	6-98	600-1559	0.5	45
CLINE POINT TO WEST END								
HUMBLE OIL CO. BASIN	47.0	45.0	40.0	46.0	6-98	600	0.5	45
THENCE TO CORPUS CHRISTI	36.0	42.0	44.0	40.0	6-98;12-98	600-300	18.3	45
CHANNEL TO LA QUINTA	46.0	47.0	46.0	45.0	10-98	300-400	4.7	45
TURNING BASIN	46.0	48.0	48.0	48.0	10-98	1200	.35	45

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 11311 NM 41/99

CORPUS CHRISTI CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 1999

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
W END OF HUMBLE OIL CO.								
BASIN TO CORPUS CHRISTI	36.0	42.0	44.0	40.0	6-98;12-98	600-300	18.3	45
CORPUS CHRISTI								
TURNING BASIN	47.0	47.0	47.0	47.0	12-98	300-800	0.96	45
INDUSTRIAL CANAL	47.0	47.0	47.0	47.0	12-98	400	0.7	45
AVERY POINT								
TURNING BASIN	46.0	46.0	46.0	46.0	12-98	400-975	0.3	45
CHEMICAL TURNING BASIN	46.0	46.0	46.0	46.0	12-98	400-1200	0.3	45
TULE LAKE CHANNEL	46.0	46.0	46.0	46.0	12-98	200-400	3.5	45
TULE LAKE TURNING BASIN	45.0	46.0	46.0	45.0	12-98	300-1200	0.3	45
CHANNEL TO VIOLA	47.0	47.0	47.0	47.0	12-98	200-300	1.6	45
VIOLA TURNING BASIN	47.0	47.0	47.0	47.0	12-98	700-900	0.16	45

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 11312 NM 41/99

CORPUS CHRISTI CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 1999

	CONTROLLING DEPTHS FROM SEAWARD IN METERS AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (METERS)	LENGTH (NAUT. MILES)	DEPTH MLLW (METERS)
ARANSAS PASS OUTER BAR	13.4	13.7	13.4	12.8	6-98	213-183	2.42	14.3
JETTY CHANNEL TO CLINE POINT	13.7	13.4	14.0	13.1	6-98	183	1.28	14.3-13.7
INNER BASIN AT HARBOR ISLAND	13.7	13.7	12.2	11.6	6-98	183-475	0.5	13.7
CLINE POINT TO WEST END								
HUMBLE OIL CO. BASIN	14.3	13.7	12.2	14.0	6-98	183	0.5	13.7
THENCE TO CORPUS CHRISTI	10.9	12.8	13.4	12.2	6-98;12-98	183-91	18.3	13.7
CHANNEL TO LA QUINTA	14.0	14.3	14.0	13.7	10-98	91-121	4.7	13.7

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 11465 NM 41/99

MIAMI HARBOR CHANNEL
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 1997
AND SURVEYS TO AUG 1998

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OUTER BAR CUT	40.5	44.4	44.7	44.4	7,8-98	500	1.5	44
WIDENER A	45.4	45.1	44.4	43.4	7,8-98	0-600	0.55	44
BAR CUT	44.5	44.5	42.3	37.5	7,8-98	500	0.73	44
GOVERNMENT CUT	42.7	43.8	42.9	42.8	7,8-98	500	0.66	42
MAIN CHANNEL	37.7	37.1	37.3	35.5	7,8-98	400	2.44	36
FISHERMANS CHANNEL B								
LUMMUS ISLAND CUT	28.9	32.0	32.0	27.4	7,8-98	400-750	0.95	42
LUMMUS ISLAND TURNING BASIN C	20.0 D	28.9	31.5	25.1	7,8-98	400-2025	0.35	42
DODGE ISLAND CUT	6.7	23.5	24.7	21.5	7,9-91;11-95	500	0.57	30

A. WIDENER LOCATED AT THE JUNCTION OF OUTER BAR CUT AND BAR CUT REACH.
B. NOT A CORPS OF ENGINEERS PROJECT. CONSULT PORT OF MIAMI FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION (305)371-7678
C. SHOALING TO 10 FT, 100' FROM WEST END OF TURNING BASIN
D. SHOALING TO 6' AT 25°45'54.3" 80°09'46.8"
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 11468 NM 41/99

MIAMI HARBOR CHANNEL
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 1997
AND SURVEYS TO AUG 1998

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OUTER BAR CUT	40.5	44.4	44.7	44.4	7,8-98	500	1.5	44
WIDENER A	45.4	45.1	44.4	43.5	7,8-98	0-600	0.55	44
BAR CUT	44.5	44.5	42.3	37.5	7,8-98	500	0.73	44
GOVERNMENT CUT	42.7	43.8	42.9	42.8	7,8-98	500	0.66	42
MAIN CHANNEL	37.7	37.1	37.3	35.5	7,8-98	400	2.44	36
FISHERMANS CHANNEL B								
LUMMUS ISLAND CUT	28.9	32.0	32.0	27.4	7,8-98	400-750	0.95	42
LUMMUS ISLAND TURNING BASIN C	20.0 D	28.9	31.5	25.1	7,8-98	400-2025	0.35	42
DODGE ISLAND CUT	6.7	23.5	24.7	21.5	7,9-91;11-95	500	0.57	30

A. WIDENER LOCATED AT THE JUNCTION OF OUTER BAR CUT AND BAR CUT REACH.
B. NOT A CORPS OF ENGINEERS PROJECT. CONSULT PORT OF MIAMI FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION (305)371-7678
C. SHOALING TO 10 FT, 100' FROM WEST END OF TURNING BASIN
D. SHOALING TO 6' AT 25°45'54.3" N, 80°09'46.8" W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 11512 NM 41/99

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 1999

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	44.5	44.5	44.5	46.0	8-99	600	3.3	44
BLOODY POINT RANGE	45.0	44.0	44.5	44.0	8-99	600	3.0	44
JONES ISLAND RANGE	46.0	45.0	45.0	45.0	8-99	600	1.2	44
TYBEE KNOLL CUT RANGE	44.0	44.0	44.0	42.0	8-99	500	2.5	42
NEW CHANNEL RANGE (A)	40.0	41.5	43.0	41.0	8-99	500	1.6	42
L. I. CROSSING RANGE	41.5	44.0	44.5	42.0	8-99	500	2.6	42
LOWER FLATS RANGE	42.0	46.0	47.0	46.0	8-99	500	1.3	42
UPPER FLATS RANGE	46.0	47.0	47.0	43.0	8-99	500	1.2	42
THE BIGHT CHANNEL	47.0	46.0	47.5	44.0	8-99	500	1.5	42
FT. JACKSON RANGE	45.5	46.0	46.5	42.0	8-99	500	0.7	42
OGLETHORPE RANGE	41.5	43.0	46.0	44.0	8-99	500	1.2	42
WRECKS CHANNEL (B)	39.5	41.5	43.5	42.5	8-99	500	1.5	42
CITY FRONT CHANNEL	43.0	41.5	40.5	35.0	8-99	500	1.5	42
MARSH ISLAND CHANNEL (C)	43.0	44.5	45.0	41.5	8-99	500	1.7	42
KINGS ISLAND CHANNEL (D)	38.0	39.0	41.0	42.0	8-99	500	2.1	42
WHITEHALL CHANNEL (E)	31.0	34.0	36.5	39.0	8-99	400	0.6	42-36
PORT WENTWORTH CHANNEL (F)	30.0	34.0	33.0	32.0	12-94;11-98;8-99	200	1.2	30

A. OYSTER BED I.TURNING BASIN-CONTROLLING DEPTH 43.0 FT, 37.0 FT 100 FT FROM BACKSIDE.
B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 39.5 FT, 31.5 FT 100 FT FROM BACKSIDE.
C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 36.0 FT, 29.5 FT 100 FT FROM BACKSIDE.
D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 40.0 FT, 37.0 FT 100 FT FROM BACKSIDE.
E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 40.0 FT 100 FT FROM BACKSIDE.
F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 33.0 FT, 34.0 FT 100 FT FROM BACKSIDE.
NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 11514 (SIDE A) NM 41/99

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 1999

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OGLETHORPE RANGE	41.5	43.0	46.0	44.0	8-99	500	1.2	42
WRECKS CHANNEL (A)	39.5	41.5	43.5	42.5	8-99	500	1.5	42
CITY FRONT CHANNEL	43.0	41.5	40.5	35.0	8-99	500	1.5	42
MARSH ISLAND CHANNEL (B)	43.0	44.5	45.0	41.5	8-99	500	1.7	42
KINGS ISLAND CHANNEL (C)	38.0	39.0	41.0	42.0	8-99	500	2.1	42
WHITEHALL CHANNEL (D)	31.0	34.0	36.5	39.0	7-99	400	0.6	42-36
PORT WENTWORTH CHANNEL (E)	30.0	34.0	33.0	32.0	12-94;11-98;8-99	200	1.2	30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 39.5 FT, 31.5 FT 100 FT FROM BACKSIDE.
B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 36.0 FT, 29.5 FT 100 FT FROM BACKSIDE.
C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 40.0 FT, 37.0 FT 100 FT FROM BACKSIDE.
D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 40.0 FT 100 FT FROM BACKSIDE.
E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 33.0 FT, 34.0 FT 100 FT FROM BACKSIDE.
NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 12311 NM 41/99

CHRISTINA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 1999
AND SURVEYS TO AUG 1999

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	28.8	29.3	30.4	8-99	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN	34.3	33.3	32.8	8-99	400	0.33	35
(OPPOSITE TERMINAL WHARF)	34.9	34.9	34.9	8-99	320	0.34	38

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 12312 NM 41/99

CHRISTINA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 1999
AND SURVEYS TO AUG 1999

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	28.8	29.3	30.4	8-99	500-340	0.70	38
THENCE TO THE LOBDELL CANAL TURNING BASIN	34.3	33.3	32.8	8-99	400	0.33	35
(OPPOSITE TERMINAL WHARF)	34.9	34.9	34.9	8-99	320	0.34	38

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 12327 NM 41/99

ARTHUR KILL, KILL VAN KULL, NEWARK BAY,
PASSAIC AND HACKENSACK RIVERS CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS-
REPORT OF JUN 1999 AND SURVEYS TO MARCH 1999

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
ARTHUR KILL (OUTERBRIDGE REACH TO N. OF SHOOTERS I. REACH)	A18.8	800-500	12-92;1-93
KILL VAN KULL (CONSTABLE HOOK REACH TO BERGEN PT. WEST REACH)	34.0	2000-800	12-96;2-97
S. OF SHOOTERS I. REACH	B5.0	400	8-90
NEWARK BAY (NEWARK BAY S. REACH TO DROYERS PT. REACH)	C17.0	1750-300	3-99
PASSAIC RIVER (KEARNY PT. REACH TO ARLINGTON REACH)	D,E0.8	300-200	6,11-89;2,3-98
HACKENSACK RIVER (DROYERS PT. REACH TO TURNING BASIN)	19.3	300-800	10,11-98

A. A DEPTH OF 32.5 FEET WAS AVAILABLE IN THE MIDDLE HALF.
B. OBSTUCTIONS INTERSPERSED IN THE TWO RIGHT QUARTERS. THERE IS A MINIMUM DEPTH OF 5.9 FEET OVER WRECKAGE.
C. A DEPTH OF 22.4 FEET WAS AVAILABLE IN THE MIDDLE HALF. EXCEPT FOR SHOALING TO 9 FT AT 40° 42' 11.4" N 74° 06' 56.1" W.
D. A DEPTH OF 6.5 FEET WAS AVAILABLE IN THE MIDDLE HALF.
E. SHOALING TO BARE ALONG THE LEFT OUTSIDE QUARTER AT THE TURN AT 40°45'43"N, 74°09'49"W.

NOTE 1. SEE LARGE SCALE CHARTS FOR MORE DETAIL OF REACHES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

CHART 12333 NM 41/99

ARTHUR KILL, KILL VAN KULL, NEWARK BAY AND UPPER BAY CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MARCH 1999

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				DATE OF SURVEY	PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER		WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
FRESH KILLS REACH	A25.0	33.8	36.3	31.5	12-92;1-93	500	1.8	35
TREMLEY POINT REACH	31.0	38.1	36.3	33.1	12-92;1-93	600	0.9	35
PRALLS ISLAND REACH	A25.0	35.5	36.3	A28.7	12-92;1-93	500	1.2	35
GULFPORT REACH	A27.5	37.0	36.9	28.4	12-92;1-93	500-600	1.1	35
ELIZABETHPORT REACH	25.8	35.3	36.5	A19.9	12-92;1-93	500-600	1.1	35
N OF SHOOTERS ISLAND REACH	28.8	32.5	32.5	28.8	12-92;1-93	600	1.0	35
S OF SHOOTERS ISLAND REACH	18.6	24.1	14.0	B 5.0	8-90	400	1.0	30
BERGEN PT. WEST REACH	39.4	40.0	40.0	37.1	12-96;2-97	800	1.1	35
BERGEN PT. EAST REACH	37.4	40.0	40.0	39.5	12-96;2-97	800	1.0	35
CONSTABLE HOOK REACH	34.0	40.0	40.0	34.8	12-96;2-97	2000-800	2.2	35
NEWARK BAY SOUTH REACH	40.3	40.1	40.2	39.1	3-99	1750-1000	1.4	40
NEWARK BAY MIDDLE REACH	36.9	40.6	37.6	34.6	3-99	1750-500	1.4	40
ELIZABETH CHANNEL	39.3	39.8	39.9	39.1	3-99	1350-500	1.4	40
PORT NEWARK CHANNEL:								
PORT NEWARK(BRANCH CHANNEL)	36.9	37.9	36.8	35.8	3-99	1050-400	0.4	40
PIERHEAD CHANNEL	36.5	37.4	35.9	36.0	3-99	300	0.7	40

A. THE CHANNEL HAS SHOALED ALONG THE EDGE; A DEPTH OF 30 FT WAS AVAILABLE IN THE INSIDE HALF OF QUARTER.

B. OBSTRUCTIONS INTERSPERSED IN THE TWO RIGHT QUARTERS. THERE IS A MINIMUM DEPTH OF 5.9 FT OVER WRECKAGE.

* CONTROLLING DEPTHS IN CHANNELS OF RARITAN BAY- EAST REACH TO AND INCLUDING FRESH KILLS REACH ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM LOWER NEW YORK BAY. CONTROLLING DEPTHS FROM CONSTABLE HOOK TO AND INCLUDING TREMLEY POINT REACH ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM UPPER NEW YORK BAY.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 12337 NM 41/99

NEWARK BAY,PASSAIC AND HACKENSACK RIVERS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 1999 AND SURVEYS TO MARCH 1999

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				DATE OF SURVEY	PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER		WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
NEWARK BAY MIDDLE REACH	36.9	40.6	37.6	34.6	3-99	1750-500	1.4	40
NEWARK BAY NORTH REACH	28.1	35.1	22.8	A18.0	3-99	900-500	1.1	35
TURNING BASIN	24.3	25.4	22.4	A17.0	3-99	900	0.26	35
PASSAIC RIVER:								
KEARNY PT REACH	17.5	18.9	17.3	13.6	3-99	300	1.1	30
POINT NO POINT REACH	5.4	9.7	13.5	10.2	6-89; 3-99	300	1.1	30
HARRISON REACH	1.7	6.5	8.4	2.6	6-89	300	1.9	20
NEWARK REACH	1.2	8.2	9.5	4.3	6-89	300	1.3	B20
KEARNY REACH	C0.8	8.8	8.2	1.2	6-89	300	0.9	B20
ARLINGTON REACH	2.0	6.8	9.1	2.5	6,11-89	200	0.9	16
BELLEVILLE REACH	0.1	0.4	8.0	9.9	6-92	150	1.4	10
NUTLEY REACH	2.6	9.2	7.4	3.5	11-89	150	1.7	10
RUTHERFORD REACH	1.7	5.1	3.8	3.7	11-89	150	2.2	10
WALLINGTON REACH	D2.2	1.5	1.9	E1.1	11-89	150	0.9	10
HACKENSACK RIVER:								
DROYERS POINT REACH	25.5	28.8	25.8	19.3	10,11-98	300-400	1.5	30
MARION REACH	27.1	26.7	28.9	22.6	10,11-98	300	1.8	30
TURNING BASIN	19.2	24.4	29.3	22.6	10,11-98	300-800	0.2	25
PORT NEWARK CHANNEL:								
BRANCH CHANNEL	36.9	37.9	36.8	35.8	3-99	1050-400	0.4	40
INSHORE CHANNEL	38.4	38.9	38.3	36.3	3-99	400	1.1	35
PIERHEAD CHANNEL	36.5	37.4	35.9	36.0	3-99	300	0.7	40

A. EXCEPT FOR A SHOAL TO 9 FT AT 40° 42' 11.4" N 74° 06' 56.1" W ALONG THE RIGHT OUTSIDE QUARTER OF THE REACH.

B. PROJECT CHANNEL, 20 FEET DEEP, HAS NEVER BEEN DREDGED. DEPTHS SHOWN ARE FOR EXISTING CHANNEL.

C. EXCEPT FOR A SHOAL, BARE AT M.L.L.W., ALONG THE LEFT OUTSIDE QUARTER OF THE LAST 380 YARDS OF THE REACH.

D. A SHOAL BARE AT M.L.L.W. EXTENDS ACROSS THE LEFT OUTSIDE QUARTER ABOUT 370 YARDS DOWNSTREAM OF THE EIGHTH STREET BRIDGE.

E. A SHOAL BARE AT M.L.L.W. EXTENDS ACROSS THE RIGHT OUTSIDE QUARTER ABOUT 300 YARDS NORTH OF THE MAIN ST. BRIDGE AND SHOALING TO 0.3 FEET 175 FEET WEST OF THE SECOND ST. BRIDGE.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 63201 (Plan A) NM 41/99

Berth or Pier	Depth alongside	Year reported
Cochin Oil Terminal	10.9 meters	1999
Q10	10.5 meters	1999
Ernakulam Wharf (Q5-Q9)	9.1 meters	1999
Tanker Berths	9.1 meters	1999
Oil Berth	7.6 meters	1999
North Coal Berth	8.2 meters	1999
Mattancheri Wharf Q1	7.6 meters	1999
Mattancheri Wharf Q2	7.6 meters	1999
Mattancheri Wharf Q3	7.6 meters	1999
Mattancheri Wharf Q4	8.2 meters	1999
South Coal Berth	7.6 meters	1999